

WHAT IS CLAIMED IS:

1. An information processing apparatus for performing communication with an external device which displays received image data, the apparatus comprising:

5 means for generating second screen image data from first screen image data, resolution of the second screen image data being lower than that of the first screen image data;

10 a display device which displays the generated second screen image data; and

 means for transmitting the first screen image data to the external device.

15 2. The information processing apparatus according to claim 1, wherein the generating means includes means for reducing the first screen image data in order to generate the second screen image data.

 3. The information processing apparatus according to claim 1, further comprising means for determining whether the first screen image data is updated, and

20 wherein the transmitting means includes a wireless communication device which transmits the updated first screen image data, when the determining means determines that the first screen image data is updated.

25 4. The information processing apparatus according to claim 3, wherein the determining means includes means for repeatedly determining whether the first screen image data is updated while a wireless

connection is established between the external device and the information processing apparatus, and the transmitting means includes means for controlling the wireless communication device such that whenever the
5 first screen image data is updated, the updated first screen image data is transmitted to the external device by a radio signal.

5. The information processing apparatus according to claim 1, further comprising:

10 means for detecting external devices that are present within a wireless communication range of the information processing apparatus;

means for displaying a list of the detected external devices on the display device; and

15 means for selecting an external device from the list, and

wherein the transmitting means includes a wireless communication device which transmits the first screen image data to the external device selected from the
20 list.

6. The information processing apparatus according to claim 1, wherein said second screen image data is displayed simultaneously with transmitting of the first screen image data.

25 7. The information processing apparatus according to claim 6, wherein said information processing apparatus further comprises:

a first memory storage area for storing said first screen image data;

said generating means includes a converter for converting the first screen image data into said second screen image data by reducing the size of said first
5 screen image data;

a second memory storage area for storing said second screen image data, and

said transmitting means acquiring said first
10 screen image data from said first memory for transmitting same to said external device.

8. The information processing apparatus according to claim 1, wherein said information processing apparatus further comprises:

15 a first memory storage area for storing said first screen image data;

said generating means includes a converter for converting the first screen image data into said second screen image data by reducing the size of said first
20 screen image data;

a second memory storage area for storing said second screen image data, and

said transmitting means acquiring said first screen image data from said first memory for
25 transmitting same to said external device.

9. The information processing apparatus according to claim 8, wherein said first and second memory

storage areas are part of the same physical memory and wherein said generating means includes a program executed on said information processing apparatus.

10. The information processing apparatus according
5 to claim 1, wherein said information processing apparatus comprises a wireless portable apparatus having a slide presentation function and said external device comprises a wireless slide projector, said first screen image data having a size suitable for display by
10 said wireless slide projector and said second screen image data having a size suitable for display by said display of said wireless portable apparatus.

11. The information processing apparatus according
15 to claim 6, wherein said information processing apparatus comprises a wireless portable apparatus having a slide presentation function and said external device comprises a wireless slide projector, said first screen image data having a size suitable for display by
20 said wireless slide projector and said second screen image data having a size suitable for display by said display of said wireless portable apparatus.

12. An system for displaying information comprising:

an information processing apparatus including:

25 (a) a memory for storing first and second screen image data.

(b) a program executable in said information

processing apparatus for converting first screen image data into second screen image data, said second screen image data having a size smaller than that of said first screen image data;

5 (c) a display for displaying said second screen image data; and

 (d) a transmitter for wirelessly transmitting said first screen image data; and

 a display device comprising:

10 (e) a receiving unit for receiving said first screen image data transmitted by said transmitter of said information processing apparatus, and

 (f) a display unit for displaying said first screen image data.

15 13. The system according to claim 12, wherein said information processing apparatus and said projecting device are operative to simultaneously display said first screen image data on said display device of said projecting device and said second screen image data on
20 said display of said information processing apparatus.

 14. A method of transmitting image data to an external device from an information processing apparatus, the method comprising:

 generating second screen image data, which
25 corresponds to a display resolution of a display device of the information processing apparatus, from first screen image data, and;

transmitting the first screen image data to the external device.

15 15. The method according to claim 14, wherein a display resolution of the first screen image data is higher than the display resolution of the display device.

10 16. The method according to claim 14, wherein a display resolution of the first screen image data is higher than the display resolution of the display device, and the generating includes reducing the size of the first screen image data in order to generate the second screen image data.

15 17. The method according to claim 14, further comprising determining whether the first screen image data is updated first screen image data, and

wherein the transmitting includes transmitting the updated first screen image data to the external device by wireless transmission when it is determined that the first screen image data is updated.

20 18. The method according to claim 17, wherein the determining includes repeatedly determining whether the first screen image data is updated while a wireless connection is established between the external device and the information processing apparatus, and the
25 transmitting includes performing a process of transmitting the updated first screen image data to the external device by said wireless transmission whenever

the first screen image data is updated.

19. The method according to claim 14, further comprising:

5 detecting external devices that are present within a wireless communication range of the information processing apparatus;

displaying a list of the detected external devices on the display device; and

10 selecting an external device from the list, and wherein the transmitting includes transmitting the first screen image data to the external device selected from the list by a radio signal.

20. A method of transmitting image data to an external device from an information processing apparatus, the method comprising the steps of:

15 generating first screen image data; storing said first screen image data in a first memory storage area, generating second screen image data, which 20 corresponds to a display resolution of a display device of the information processing apparatus, from said first screen image data, said second screen image data having a smaller resolution than that of said first screen image data;

25 storing said second screen image data in a second memory storage area,

accessing said second memory storage area for

displaying said second screen image data on said
display device, and;

accessing said first memory storage area for
transmitting the first screen image data to the
5 external device.